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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,663	12/17/2004	Hitoshi Asahi	52433/782	7855
26646 KENYON & F	7590 12/20/2007 KENYON LLP		EXAMINER	
ONE BROADWAY			YEE, DEBORAH	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			1793	
				
			MAIL DATE	DELIVERY MODE
			12/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/518,663	ASAHI ET AL.
Office Action Summary	Examiner	Art Unit
	Deborah Yee	1793
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet wi	th the correspondence address
• •	I V IO CET TO EVDIDE 2 M	ONTU(S) OR THIRTY (20) DAYS
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statuenty and the provided part of the mail tearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (1.136(a). In no event, however, may a rick will apply and will expire SIX (6) MON (ate, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		·
1) Responsive to communication(s) filed on 22	October 2007.	
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.	
3) Since this application is in condition for allow	ance except for formal matt	ers, prosecution as to the merits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-4,7 and 9</u> is/are pending in the ap	plication.	·
4a) Of the above claim(s) is/are withdr	•	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-4,7 and 9</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	or election requirement.	
Application Papers	•	
9) The specification is objected to by the Examir	ner.	
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to I	by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corre	•	•
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).
1. Certified copies of the priority documer	nts have been received.	
2. Certified copies of the priority documer	· · · · · · · · · · · · · · · · · · ·	
3. Copies of the certified copies of the pri		received in this National Stage
application from the International Burea		
* See the attached detailed Office action for a lis	it of the certified copies not i	eceived.
Attachment(s)	_	•
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of In	formal Patent Application
Paper No(s)/Mail Date	6) Other:	<u>-</u> ·

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 to 4, 7 and 9 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 to 4, 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 4,772,771 (hereinafter US'771) in view of US Patent 6,245,290 (hereinafter US'290).
- 4. US'771 in table 1 of columns 3-4 disclose specific steel alloy examples for oil well pipe application having compositions that meet the recited claims. Even though 0.001 to 0.01% N as recited by the claims is not disclosed by prior art, such would not be a patentable difference since N would be an obvious additive in view of US'290. Note that US'290 on lines 21-30 in column 8 teaches that it is desirable to add 001 to 0.006% N with small amounts of Ti to form TiN for improving ductility and prevent coarsening of grains in an analogous oil well pipe steel. Since such properties would be sought by US'771, then it would be an obvious modification for one skilled in the art to incorporate

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N together with Ti in steel to produce no more than the known and expected effects from such additions.

- 5. Even though US'771 does not teach the collapse strength ratios and a bainitic ferrite or bainite microstructure as recited by the claims, such properties would be expected since the composition and process of making are closely met, and in absence of proof to the contrary. Note claim 1 in columns 5-6 of US'771 teaches hot rolling, quenching, coiling at a temperature not exceeding 250C, forming steel into a tubular form followed by welding and then reheating the welded zone at a temperature above 900C, quenching and tempering, which are essentially the same steps as disclosed on page 16 of Applicant's specification.
- 6. Claims 1 to 4, 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 406184693 (hereinafter JP'693) or US Patent 6,245,290 (hereinafter US'290).
- 7. Each reference teaches a steel tube having a composition that meets the recited claims, see alloys 21 and 22 in table on page 4 of JP'693; and alloys 1 to 12 in tables 1 and 2 of columns 17-18 of US'290. Moreover, similar to present invention, prior art steels exhibit a martensitic-bainitic microstructure. Even though prior art teaches the additional phase martensite, such would not be excluded from "comprised" recited by the claims since "comprised" is inclusive of unrecited components, even in major amounts.
- 8. Even though the collapse strength ratios as recited by the claims are not taught by prior art, such property would be expected since composition is met and process of

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making is closely met. Note prior art steel is subjected to hot rolling followed by cooling and coiling at a temperature of not more than 300C to form steel plate, then steel plate is subjected to shaping into a tube and welding a seam which are essentially the same steps as disclosed in item (12) on page 7 of Applicant's specification.

9. In addition, US'290 on lines 5 to 13 in column 1 teaches using pipe for transport of crude oil, and would be expected to be used in expanded oil well drilling application as recited by claims 7 and 9. Although JP'693 does not teach using pipe for expanded oil well drilling, such would not be a patentable difference since it is merely Applicant's future and intended use.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793

/DY/